

**Peter 1 Island - 3Y** During the next week, the eight

Peter 1 Island DXpeditioners will arrive in the Falkland Islands, via England. Look for them as **VP8BZL** until Jan. 23, the day they will meet up with their chartered Russian icebreaker, and set out for a planned Feb. 1 landing on Peter 1. Once on the air, they will transmit on 1845, 3785 (3800 for EU), 7065, 14195, 18145, 21295, 24945, and 28475 kHz on SSB, and 1826, 3522, (3507 for EU), 7022, (7007 for EU), 10104, 14024, 18074, 21024, 24894, and 28024 kHz on CW. On RTTY, try 1825, 3680, 7070, 14080, 21080, and 28080 kHz. On satellites, watch 145.890 MHz. They will listen up on reasonable frequency spreads, working by continent and by call area in the US, moving across the country: 1-2-3-4-8-9-0-5-7-6.

**Edited by Chod Harris VP2ML**

# The DX Bulletin

**America's Premier Weekly Amateur Radio Publication**

Operators are Ralph KØIR, Tony WA4JQS, Peter ON6TT, Terry W6MKB, Luis XE1L, Bob N4GCK, Bob KK6EK, and Willy HB9AHL. Martin Tossey, a Belgian non-amateur, will help with logistics. Sunrise and sunset change rapidly as summer ends in the Antarctic regions. Feb. 1 sunset is at 0403Z, and sunrise is 0829Z; Feb. 12 sunset is 0246Z, and sunrise is 0947Z. MiniProp Plus suggests that there will be propagation between Peter 1 Island and the US practically 24 hours a day. Try 80 meters from 0200Z to a couple of hours before local sunrise; 40 meters 0100Z to an hour before sunrise; 20 meters during local daytime; 17 meters from 1700Z to sunset, and 15 meters around 2000Z. They'll leave Peter 1 Island around Feb. 12-14, and return home via Cape Town, South Africa. More information next week.

**DXpedition News**

**Pacific:** Nob JF2MBF, who made so many contacts from Pitcairn Island as **VR6JJ** early last year, sets out on a one-month DXpedition on Feb. 12. With Yasu JI1NJC, Nob will operate from Tonga as **A35JJ** Feb. 12-20, **T23JJ** from Tuvalu Feb. 23-Mar. 1, **T30JJ** from Western Kiribati Mar. 2-8, and **C21/WK3D** from Nauru Mar. 9-14. 160-10 meters, CW, SSB, and RTTY, plus Mode B on the satellite. QSL direct or via the JARL bureau to JR2KDN, with separate SASEs for each country and callsign, please.

**St Lucia - J6** Scott Francois N9JCL will operate **J6/** Jan. 28-Feb. 2. Try 3510 or 3795 kHz at 0900Z; 7003 (listening up 3-5 kHz) at 1000Z, and 14195 kHz at 1200Z. QSL address is 1138 McAllister Ave., Marinette WI 54143. (This is different from his *Callbook* address!) SASE, please.

**Thailand - HS** Fred Laun K3ZO will concentrate his **HSØZAR** operation on 40-meter CW, on both morning and evening grey lines, to Feb. 15. Look for him above 7015, and as high as 7030 kHz, so that he can avoid Indonesian SSB QRM. He has asked for 80-meter privileges 2000Z Feb. 4-1700Z Feb. 6, near 3513 kHz. Sunrise is 2344Z; sunset is 1110Z. QSL K3ZO.

**Reserve Your Island - CQWW 160-Meter CW**

- **P4ØW** will be a multi-single effort by W2GD and K2TW. QSL to N2MM.
- **AH6IO** will be active from the north shore of Oahu in both modes of the contest.
- **P49I** will be a single-op entry by K4PI. QSL K4PI.

**Shortly Noted**

- **HZ1AB** is on 1830-35 kHz Fridays from 0200Z. Operator Terry has worked 5BWAZ from Zone 21.
- **FK8CP** is on 1838 kHz 07-1900Z for "rare DX only." He won't answer W/VE calling on 1838. Around 0830Z and 1300Z, he'll call for W/VE on 1842 kHz, listening 1846-48 kHz. Fax number for skeds is 687-28-10-33.
- **C91BH**, by Lars SM6DRM, active until the end of January, says on the air to QSL via **SM6CTQ**, not **SM5CTQ**.
- **Pratas:** The BV9P team made 630 QSOs in two hours of operation, with a single contact with KH6WU being the only USA QSO. (A mandatory luncheon with the commanding officer cut into operating time.) The operators hope this demonstration will lead to a real DXpedition in March.
- **RTTY:** Spots: **A43YY** 14086 0915Z; **HKØDPA** 21088 1535Z; **9K2IC** 14086 1430Z; **FR5ZE** 14091 1730Z; **J28JJ** 14089 2000Z; **VQ9WL** 14086 1805Z; **ET3YU** 21084 1100Z; **5R8DG** 21084 1100Z.
- **SSB Net** check-ins: **14227** kHz: (11, 21Z) **ZD9BV** 5L2PP 3B8AD 9M8BL S21ZG A71BH 5X1F; **14247:** (23Z) **9G1SD** EL2PP VQ9FM; **21355:** (18Z) **5H3GB** C91AI ZK1AT 9K2TC Z21SE 7Q7BE 5R8DY C91J.

## Propagation Forecast and Historical Data

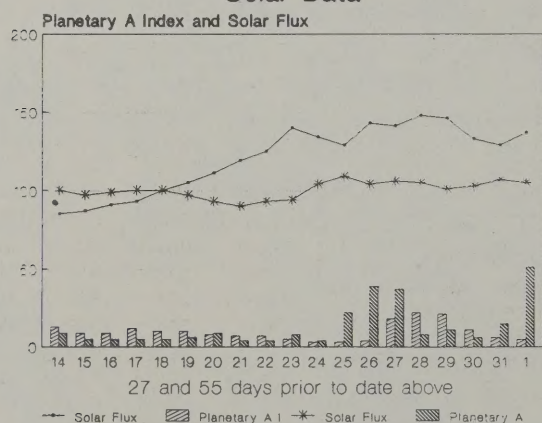
Day Forecast	27 Days Before	55 Days Before
January 1994	Date Flux A K	Date Flux A K
14 Low Normal	12/18 85 13/13 4	11/20 100 07/09 2
15 High Normal	12/19 87 09/09 2	11/21 97 04/05 1
16 High Normal	12/20 91 10/09 3	11/22 99 03/05 1
17 High Normal	12/21 93 13/12 2	11/23 100 04/05 2
18 High Normal	12/22 100 10/10 2	11/24 100 02/05 0
19 High Normal	12/23 105 08/10 2	11/25 97 03/06 1
20 High Normal	12/24 111 07/08 2	11/26 93 09/09 4
21 Above Normal	12/25 119 06/07 1	11/27 90 02/04 1
22 Above Normal	12/26 125 05/07 1	11/28 93 02/04 1
23 Above Normal	12/27 140 03/05 1	11/29 94 08/08 2
24 Above Normal	12/28 134 00/03 0	11/30 104 02/04 1
25 Above Normal	12/29 129 00/03 0	12/1 109 15/22 3
26 Above Normal	12/30 143 02/04 0	12/2 104 32/39 4
27 High Normal	12/31 141 13/18 1	12/3 106 27/37 2
28 Low Normal	1/1 148 12/22 1	12/4 105 04/08 2
29 Low Normal	1/2 146 14/21 1	12/5 101 07/11 3
30 High Normal	1/3 133 11/11 3	12/6 103 04/06 1

### Propagation Watch

Solar activity is winding down from its sudden increase at the beginning of the new year, limiting high-band openings and signal strengths. However, an extremely quiet geomagnetic field has given DXers some excellent low-band and long-path openings. 160 meters has seen the best conditions in many years, and 80 meters has been open on both long and short paths to distant QTHs. DXers can expect more of the same over the next ten days, before possible deteriorating conditions set in around the 27th.

Meanwhile, a **StratWarm** condition exists in the north polar regions. This stands for Stratospheric Warming, when the normally cold ionosphere is warmer than normal. This condition happens regularly at this time of year. Theoretically this should adversely affect HF propagation through the polar regions by increasing vertical mixing, allowing ions to combine, and weakening the ability of the ionosphere to refract radio signals. In practice, however, propagation through the polar regions does not appear to be affected at all by a StratWarm. DXers may want to compare signals from last month to the present to see if they notice any significant difference. Otherwise, DXers can probably ignore StratWarm warnings. Good hunting!

### Solar Data



## Unofficial Activities for Hamvention 94

The North Coast Contesters and the Frankford Radio Club will be hosting the Contest Super Suite Thursday, Friday, and Saturday nights, April 28, 29, and 30. Located at the Stouffer Center Plaza Downtown Hotel Miami Room (2nd floor). Large ballroom suite with cash bar. Room for 400 Contesters and DXers.

The North Coast Contesters and the Frankford Radio Club and other contest clubs will host the 2nd Annual Contest Banquet on Saturday night, April 30. Seating is limited. For more information, send an SASE to North Coast Contesters, P. O. Box 59, New Bedford PA 01940.

Also, The DX Bulletin will co-host a Hospitality Suite in the Judy Resnick Room on the top floor of the Stouffers Friday and Saturday nights. More details nearer the Dayton Hamvention.

### QSL Information

- James 9V1YC (aka KB1CM) is having problems with mail directed to his Singapore post office box. Until these problems can be settled, QSL 9V1YC via Derek AA5BT. AA5BT also handles cards for Trey WN4KKN's contest activities, including KP2, ZP5, HC8N, HD9N, and V31RR.
- QSL ZF2VW and 6Y5/W7WY via W7WY.
- QSL the Oct. 12 and Oct. 16-22 operations of special-event station KP4/500 with control number given over the air and SASE, or SAE and US\$1/1 IRC, to Box 9369, Bayamon PR 00960-8040.
- QSL the ARRL 10-Meter Contest operation of W3USS (Capitol Hill Amateur Radio Society) via K8OQL, with SASE, please.
- CR3W CQWW CW contest contacts will be automatically confirmed via the DARC bureau. Do not send cards to the Portugal bureau.
- Anyone still needing a VU7SF/VU2API card should request same before March 15, 1994, from Philip Ollapally W2XP, P. O. Box 41366, Nashville TN 37204. QSL requests after that date should go to P. O. Box 4250, Bangalore 560042, India, with return Indian postage or IRCs (not currency; it is illegal for Indians to receive currency via the mail.)
- Cards for HS0AC contacts after June 1, 1993 should go to Viroj Supapak HS1HSJ, P. O. Box 7, Bangkok, 10220, Thailand. (KM1R was for former QSL manager.)

### QSLs Received

- From managers: 3D2MT (JR2KDN, 11 WKS); 4L5A (IK3HHX, 4 MOS); 5T5CJ (F6FNU, 3 WKS); 6V6U (K3IPK, 1 MO); A22EX (N4CID, 1 WK!); A61AD (WB2DND, 6 WKS); AH9B (OKDXA, 3 MOS); C21/KC6DX (JA2NVY, 3 MOS); C6A/K5BDX (K5BDX, 1 WK!); CY9R (VE3MRN, 3 MOS); E31A (JH1AJT, 10 WKS); GD4UOL (G4UOL, 2 WKS); JX3EX (LA5NM, 6 MOS); OJ0/OH1VR (OH1VR, 2 WKS); PY0FM (PY5CC, 3 WKS); TL8GR (F5XX, 1 MO); TY8OBO (WA4OBO, 2 WKS); VP2EC (N5AU, 10 DAYS); YS1X (W3HNC, 9 DAYS!);
- Direct: 5V7B (1 MO); 7P27LI (3 MOS); 7P8SR (7 WKS); 7Q7ZZ (10 MOS); 7X2DG (2 MOS); 7X2FK (4 WKS); CP5VW (4 MOS); FH5CB (7 WKS); FK8FA (5 WKS); FY5FY (1 MO); GJ2FMV (2 WKS); J28BF (1 YR!); TU4EI (11 WKS); TZ6GD (1 MO); VP8ON (5 WKS); YL1WW (6 WKS); YV5MRR (1 MO); Z31RB (7 WKS);

# B • A • N • D • P • A • S • S

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. \* = long path. P = packet.  
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

## RTTY

4Z84TA	21085	1355	1	FL
7P8SR	14090	2135	2	MN
A22MN	14083	2123	4	ID
J28BM	21093	1728	1	FL
KG4CB	14089	2350	1	CA
OD5PL	21091	1417	8	FL
V50CM	18083	1555	1	OH
XT2BW	28085	1550	1	OH
YL2GD	14090	1540	29	MN
ZP6XD	21083	1356	1	FL

## 160 Meters

4X4NJ	1832	0206	1	MA
JA1CGM	1908	1209	30	MA
JA1HQT	1908	1153	29	WV
Z21HS	1835	0005	2	MA
ZS1JX	1831	0340	5	ID

## 80 Meters

3DA0BK	3505	0259	6	FL
4K1F	3512	0232	31	MA
5Z4FO	3514	0159	31	MN
9K2MU	3505	1120	28	NH
A22MN	3505	0004	3	FL
A71CW	3505	2252	22	WV
CT3FT	3508	0748	28	KS
EA8AB	3504	0749	31	FL
G4ODV	3504	0719	28	KS
HZ1AB *	3507	1405	2	CA
JA1HQT	3506	1000	29	NH
JA3CMD *	3504	2137	1	MA
OH1XX *	3799	1334	1	MN
OX3XR	3508	0154	29	WV
PZ1DV	3509	0315	8	FL
PZ1DY	3505	0210	24	FL
RU0LL	3511	2237	2	MA
TF2AA	3520	0332	8	FL
UA0FM	3505	1435	2	IA
UJ8JA	3500	2130	27	NH
US0SR	3511	0112	5	FL
VK6HD *	3501	2121	1	MA
VK6LW	3502	1236	28	WV
VK6WJ	3504	1100	29	NH
VO2AA	3509	2341	27	WV
VS6WV	3500	1130	28	NH
XT2BW	3515	0311	2	FL
YL1WW	3501	0245	31	MN
Z21HS	3507	0110	3	IA
ZK2XJ	3507	1151	28	MA
ZS6NW	3511	0353	3	FL
ZS6QU	3511	0242	1	MA

## 75 Meters

5N0MVE	3791	2333	30	VA
A92BE	3799	0258	1	MA
FK8CP	3795	1219	1	MA
FO4OK	3795	1216	2	MA
G4ODV	3794	0055	3	MI

KG4CW	3799	0406	2	MA
S21ZG	3795	1215	1	MA
VK4HF *	3795	1345	2	MN
VK6BKL	3999	1339	29	MN
VK6LK *	3798	2115	1	MA
XQ8ABT	3798	0255	29	VA
YS1JRG	3793	0134	27	VA
ZL4BO *	3795	1251	2	MN

## 40 Meters

3B8CF	7010	0220	31	IA
4K2OX	7005	0214	8	FL
4X/S59PR	7003	1421	3	ID
5B4WN	7010	2145	2	IA
6W6JX	7005	2200	31	IA
9V1YC	7005	1151	27	AL
9VIZE	7007	1213	31	MA
A22MN	7010	2234	2	MA
EA6EJ	7001	2357	7	FL
EA8AB	7001	2256	1	FL
ES1NW	7002	1307	29	ID
ES1WN	7007	1329	27	IL
HC4AI	7011	1140	3	OH
HJ0VGJ	7007	2256	28	WV
HS0ZBI	7014	1525	2	CA
HT1T	7002	2339	1	FL
HZ1AB *	7007	1350	2	IL
IS0OMH	7004	2200	8	FL
J28DE	7008	1527	1	ID
JA9IPF *	7018	2206	28	WV
P29DX	7008	1310	28	IA
PZ1DV	7002	0027	3	FL
S21ZV	7005	1430	2	IA
SU2MT *	7001	1545	1	ID
TU2XZ	7015	0110	30	IA
UC2ADX *	7003	1337	2	IL
UI9ACP	7006	1240	28	IA
UK8AA	7011	2330	6	FL
V2/VE3BW	7002	0018	8	FL
VK6HD	7011	2222	2	WV
VQ9SS *	7006	1448	2	ID
VS6WV	7003	1202	31	MA
XT2BW	7007	0650	28	KS
XT2BW	7022	2250	2	IA
YB0ARF *	7015	2230	3	IA
Z21HS	7006	2315	31	ID
ZA1J	7003	0251	6	FL
ZD8M	7068	2358	1	MA

## 30 Meters

4K1F	10101	0313	28	GA
5B4WN	10106	2306	6	FL
EA9AI	10114	2332	7	FL
FK8GJ	10104	1334	1	FL
HP2CWB	10106	2241	28	MN
OX3XR	10101	1640	31	ID
S21ZV	10102	1617	3	MD
SV2BOH	10104	2349	7	FL
T30RT	10105	1355	2	FL
TU2MA	10106	0010	25	WV
VK6XA	10106	1231	29	GA
VQ9QM	10106	1406	31	GA
YO2BBX	10104	1512	2	ID

## 20 Meter CW

4S7TP	14010	0150	29	CA
4Z5AF *	14008	1547	28	WA
5X1B	14027	1755	31	ID
8Q7JA *	14029	0125	1	CA
9X5HG *	14027	1616	29	WA
9X5OM *	14008	1540	1	CA
A41LK *	14003	1350	29	IA
EA6ZY *	14026	1610	31	WA
ER1CW *	14023	1559	29	WA
ET3YU	14025	1955	3	ID
FK8GT	14020	0954	1	IL
LI10WZ	14015	1221	3	VA
OX5XR	14025	1905	1	MI
PZ1DY	14027	0050	28	GA
RX3RXX	14021	1415	25	MI
S21ZG *	14002	1334	27	IL
SU2MT *	14025	1601	1	WA
SV2BOH *	14012	1603	29	WA
T30RT	14010	1327	23	NB
UA0QFC	14016	2102	1	WV
UA0YO *	14013	0200	29	CA
US1ITU	14014	1244	1	VA
UZ0FWA	14028	2350	23	MI
VU2IOC *	14027	1308	30	GA
ZB2FK	14016	2034	1	FL

## 20 Meter SSB

4S7DA *	14192	0125	29	CA
4S7EA *	14192	0115	1	CA
9G1SB	14197	2133	30	MD
A61AD	14223	1411	30	MD
A71BH	14227	1533	29	FL
AP2JZB	14235	1408	30	MD
BY1QH	14195	0121	27	MD
C91AI	14202	2025	5	MD
CE9AP	14260	0138	28	MD
EY8MM	14198	1326	1	VA
KC4AAA	14255	0118	24	MD
KC4AAA	14278	0625	29	KS
LU1ZA	14260	0134	28	MD
S21ZG	14228	1416	30	MD
SU2MT	14192	1742	31	WI
TU2CN	14152	2305	31	WI
VP8CIL	14258	0215	31	WI
VU2OO *	14193	0205	30	CA

## 17 Meter CW

5W1AS	18077	2350	4	ID
HT1T	18075	1630	2	ID
IS0OMH	18073	1753	31	ID
SV2BOH	18069	1425	27	IL
V2/VE3BW	18070	1629	5	ID

## 17 Meter SSB

3X0DEX	18123	1854	2	MI
9X5DX	18135	1615	1	IL
AP2JZB	18136	1506	3	MD

## 15 Meter CW

5R8DS	21017	1945	31	IA
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5X1B	21029	1432	31	GA
A22MN	21085	1915	1	FL
C91J	21015	1851	1	FL
OX3XR	21027	1610	2	CA
TF3LB	21015	2003	5	ID
US3IZ	21016	1424	1	VA
ZS6ME	21011	1649	5	ID
ZS6UN	21028	1730	31	ID

## 15 Meter SSB

5N0MVE	21332	1610	31	IA
5V7JB	21284	1725	31	WI
5Z4FV	21323	1813	31	VA
7X2LS	21295	1853	31	WI
8R1CJ	21405	2033	2	NY
EA9KB	21312	1650	26	NY
EL2PP	21292	1918	31	NY
FO4OK	21290	1720	27	MN
YI1MH	21210	1344	31	VA
ZA1B	21293	1329	31	MD
ZB2JO	21235	1445	31	IA
ZD8M	21317	1753	1	NY

## 12 Meter CW

3B8FG	24896	1301	2	MA
HT1T	24896	1520	1	WV

## 12 Meter SSB

3X0DEX	24945	1725	2	MA
5N0BHF	24957	1607	3	CA
9H1GP	24940	1501	3	MD
9X5DX	24950	1440	1	MA
AH8C	24940	2103	1	MA
CQ2K	24957	1518	1	MD
EA9PB	24967	1420	1	MA
HP2CWB	24948	1539	2	MA
Z21CS	24945	1804	1	CA
ZD8M	24938	1616	3	CA

## 10 Meter CW

7Q7LA	18006	1540	1	OH
C91J	28012	1511	1	FL
FY5GJ	28029	1524	2	FL
HP1AC	28038	1446	1	MA
IS0GSR	28037	1441	1	FL
J28DE	28017	1358	1	FL
PJ2AM	28016	1527	2	FL
YS1DRF	28013	1425	1	FL

## 10 Meter SSB

5N0NVE	28520	1552	1	MA
7X2LS	28492	1455	1	MD
9L1CF	28495	1500	1	IA
CN8NW	28440	1620	29	MD
FR5EL	28445	1500	1	IA
V21BF	28530	1556	1	MA
V44KAF	28496	1645	29	MD
VR6ME	28470	1615	31	IA
YS1JRG	28450	1808	28	WV
ZD7DP	28428	1510	2	IA
ZD7SM	28428	1630	2	CA
ZS4LV	28520	1458	1	MD

## Current and Future DXpeditions

(Changes and hot info in boldface.)

<u>DXCC Country</u>	<u>Prefix</u>	<u>Callsign</u>	<u>Dates</u>	<u>Issue</u>
Aruba	P4/	W1EKT	Jan. 10-17	I717
	P40U	W8s	Jan. 25-Feb. 2	I718
		P40W	CQWW 160 CW	I721
		P49I	CQWW 160 CW	I721
Bahamas	C6	C6AGN	Dec. 5-Feb 23	I715
Belize	V3	V31JZ/RL	Feb. 13-21	I719
British Virgins	VP2V/	W2GUP	Jan. 23-Mar. 17	I720
Croatia	9A/	K4XU	to Mar.	I720
Dodecanese	SV5	SV5TS	21252 15-16Z	I716
Gambia	C56/	SM4TQO	to mid-Jan.	I719
Ghana	9G	by XT2BW	Feb.-Apr.	I719
		9G1KL	14215 07-08Z	I720
Guinea	3X	3X0DEX	18123 08Z Sun.	I718
Guyana	8R1WW/	MV	Jan. 8-14	I720
Martinique	FM	FM5WC	to early Feb.	I719
Minami Torishima	JD1BIE		14235 kHz 0730Z	I720
Montserrat	VP2MFA		Jan. 14-27	I718
	KC5AK, KC5DJI/	VP2M	Jan.30-Feb.5	I719
Mozambique	C9	C91BH	to Jan. 30	I720
Nauru	C21/	WK3D	Mar. 9-14	I721
Peter I Island	3Y	TBA	Feb. 1-17	I721
Pitcairn Island	VR6	VR6ID	21290 1600Z Mon.	I716
Pratas Island	BV	BV9P	March	I716/7
Rodriguez Island	3B	3B9FR	new bands	I711
Rotuma	3D	3D2AG	now active	I717
Rwanda	9X	9X5DX	21024 13Z	I720
St. Lucia	J6/	N9JCL	Jan. 28-Feb. 2	I721
San Andrés	HK0/	DF4UW	Jan. 8-19	I720
Saudi Arabia	HZ	HZ1AB	1832± 02Z Fri.	I721
Somalia	T5/	N3HQW	Weds. and Suns.	I716
Svalbard	JW	JW5EBA	Jan.-Jun.	I719
Thailand	HS	HS0ZAR	Jan. 15-Feb. 15	I721
Togo	5V	5V7JB	21220 17Z Fri.	I720
Tonga	A3	TBA	Dec.-Jan.	I712
		A35JJ	Feb. 12-20	I721
Tromelin	FR/T	FR5ZQ/T	Jan.	I719
Tuvalu	T2	T23JJ	Feb. 23-Mar. 1	I721
Western Kiribati	T30	T30JJ	Mar. 2-8	I721
Western Sahara	S0	4U1/F5RSH	soon	I719
Western Sahara	S0	S0RASD	21258 1730-1830Z	I718
		S01MZ	14202 1930Z	I718
Zambia	9J2BO		24900 1530Z	I720
Zone 29		VK6LK	3795± 22Z	I716

## Operating Events and DX Gatherings

<u>Dates</u>	<u>Event</u>	<u>Reference:</u>
Jan. 15-16	HA-DX CW Contest	<u>QST</u>
Jan. 28-30	CQWW 160-Meter CW Contest	<u>CQ</u>
Jan. 29-30	UBA SSB Contest	<u>CQ</u>
Feb. 12-13	EAWW RTTY	<u>RTTY Journal</u>
Feb. 19-20	ARRL DX CW Contest	<u>QST</u>
March 5-6	ARRL DX SSB Contest	<u>QST</u>
April 15-17	Visalia International DX Convention	<u>I716</u>

## Resident Amateurs on Regularly

<u>DXCC Country</u>	<u>Callsign</u>	<u>Freq.</u>	<u>UTC</u>
160 Meters	4X4NJ	1831	0200Z
160 Meters	Z21HS	1835	0000Z
80 Meters	CT3FT	3506±	0800Z
Albania	ZA1J	7003	0230Z Thrus.
Botswana	A22MN	7008±	2230Z+
Ceuta & Melilla	EA9KB	21300±	1700Z+
Chagos	VQ9SS	7007±	1500Z
Gibraltar	ZB2JO	21250±	1500Z+
Greece	SV2BOH	14008±	1600Z
Greece	SV2BOH	18070	1430Z+
Greenland	OX3XR	3508	0200Z
India	VU2CVP	14184	0200Z
Latvia	YL1WW	3503±	0300Z
Mauritius Island	3B8CF	7006±	0230Z
New Caledonia	FK8GJ	10103±	1330Z



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Nicaragua	HT1T	40M CW	0000Z+
Qatar	A71CW	3502±	2300Z+
Singapore	9V1YC	7005	1200Z+
South Shetlands	4K1F	3511	0230Z
South Shetlands	4K1F	10101	0300Z
Sri Lanka	4S7AVR	14190±	0120Z
Suadi Arabia	HZ1AB	7006	1330Z
Swaziland	3DA0BK	3506	0300Z
Uganda	5X1B	14208	1800Z+
Uganda	5X1B	21028	1430Z+

## Contributors

This Issue made possible by: AA5BT, AB8K, AG8L, AH6IO, DL1EK, FK8CP, HK1LDG, JDN, K0IR, K2AJY, K3LR, K3ZO, K4BAI, K4IQJ, K4PI, K6IR, K8JLF, K8OQL, K8RWL, KA7T, KF2KT, KG4O, KM4KJ, KM9J, KN4FY, KZ0X, N0ABA, N2GLH, N4MM, N7NG, N9CJL, NM7M, VE9RJ, W0IJN, W0RXL, W0ZV, W1FV, W1KNT, W1NH, W2GD, W2XP, W4VQ, W6JOX, W6UQF, W6WKE, W7WY, W8CT, W9HAO, W9RXJ, WA6KBL, WA7FKV, WB3ECU, WB7BNM, WB8ZRL, WP4U, ZD8DEZ.